



ILLUMILLA

Sea of Lights

Technische Daten

- Leistungsaufnahme 225 Watt (100% alle Kanäle)
- Meanwell Netzteil, 320 Watt, 100-240 Volt, AC, 50/60 Hz
- 168 High Power LED's, max. Leistung 5 Watt
- Max. Steuerstrom 1.5 Watt / LED
- 10.488 Lumen Lichtstrom (100% alle Kanäle)
- 40.573 Lux Beleuchtungsstärke
- 1.110 $\mu\text{mol}/(\text{s m}^2)$ PPFD



- 4 Farbkanäle separat ansteuerbar 380nm - 850nm
- WLAN App Steuerung direkte Verbindung zur Leuchte
Kein Router oder Gateway, keine Verbindungsprobleme
- Passive Kühlung über das Gehäuse, aktive Kühlung über vier geräuscharme Lüfter

Standardausführung/Lieferumfang:

- 90° Linsen, tief-breitstrahlend, Ausleuchtungsbereich 100cm x 70cm
- LED Gehäuse Aluminium/Kunststoff 600 x 240 x 42mm (LxBxH)
- Netzkabel, 1m
- Steuerkabel, 2.5m
- Stahlseilaufhängung Triangel



Optional geänderte Optiken:

- 60° Linsen tiefstrahlend, Ausleuchtungsbereich 90cm x 60cm, ideal für Beckenhöhen ab 100cm
- 120° Linsen breitstrahlend, Ausleuchtungsbereich 120cm x 100cm, ideal für flache Becken bis 60cm Höhe

Die Linsen sind auch nachträglich austauschbar und separat lieferbar im Set

Photometric laboratory

Measurement report 210303G011

DIAL

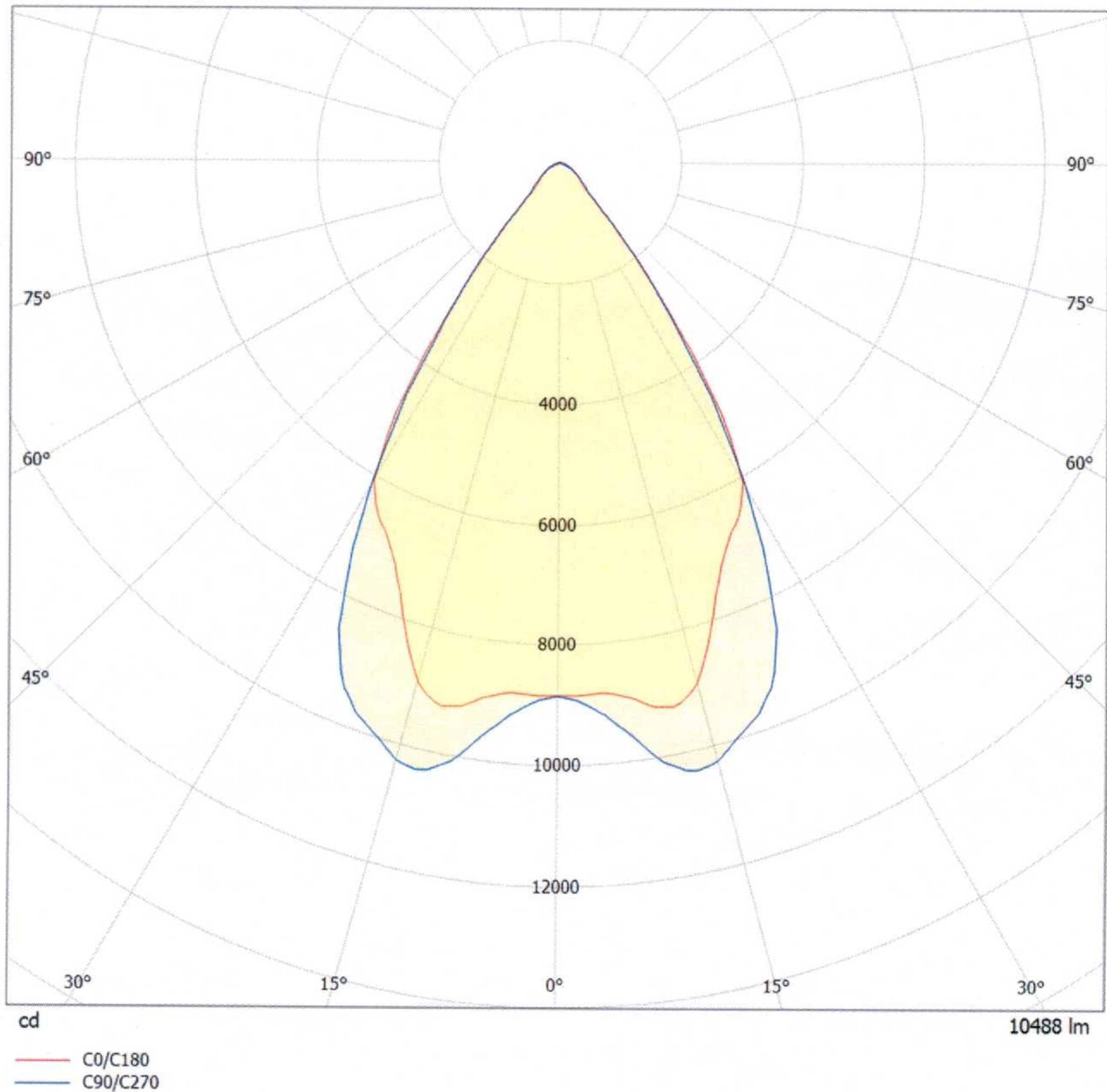
Customer
Riff Imports

Date of measurement
21.01.2020

DUT
Riff Imports
Illumilla (110V/220V 50-60Hz) 84-3W

Luminaire luminous flux
 $\Phi = 10,488.6 \text{ lm}$

Luminous intensity distribution (polar)



Photometric laboratory

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DIAL

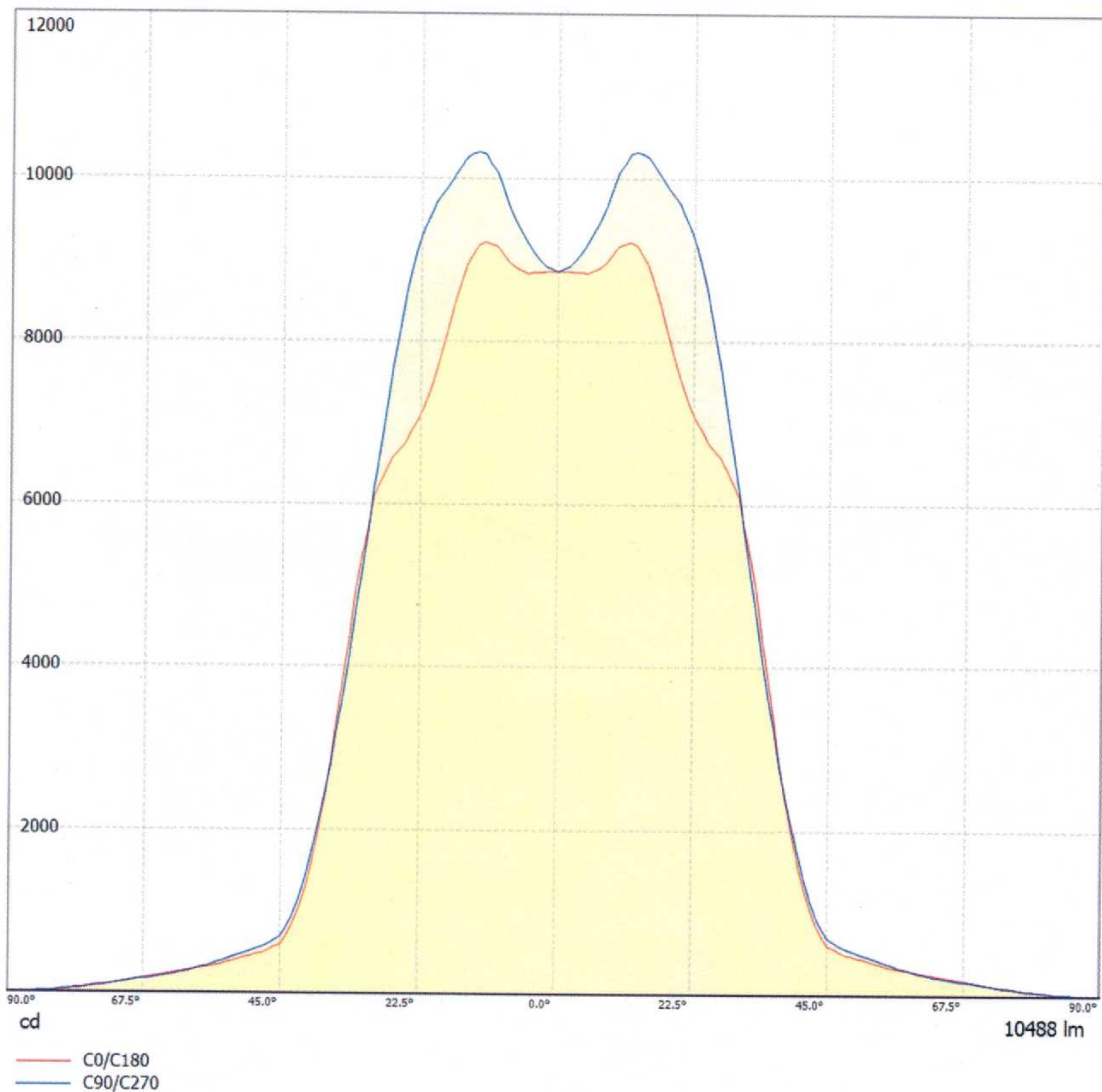
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Luminaire luminous flux
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Luminous intensity distribution (cartesian)



Photometric laboratory

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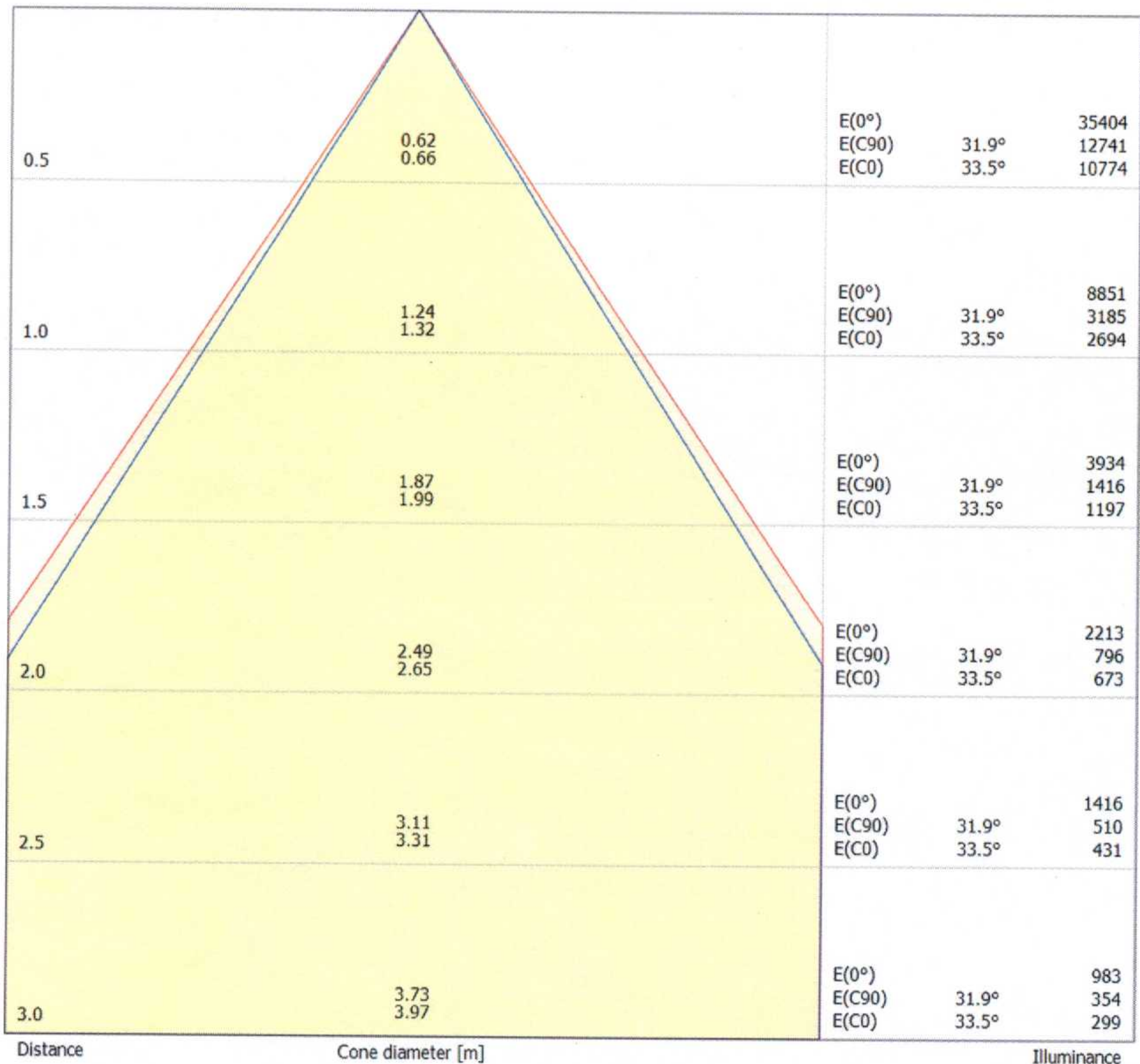
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Cone diagram



— C0/C180 (Half-peak divergence: 67.0°)
— C90/C270 (Half-peak divergence: 63.8°)

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DIAL

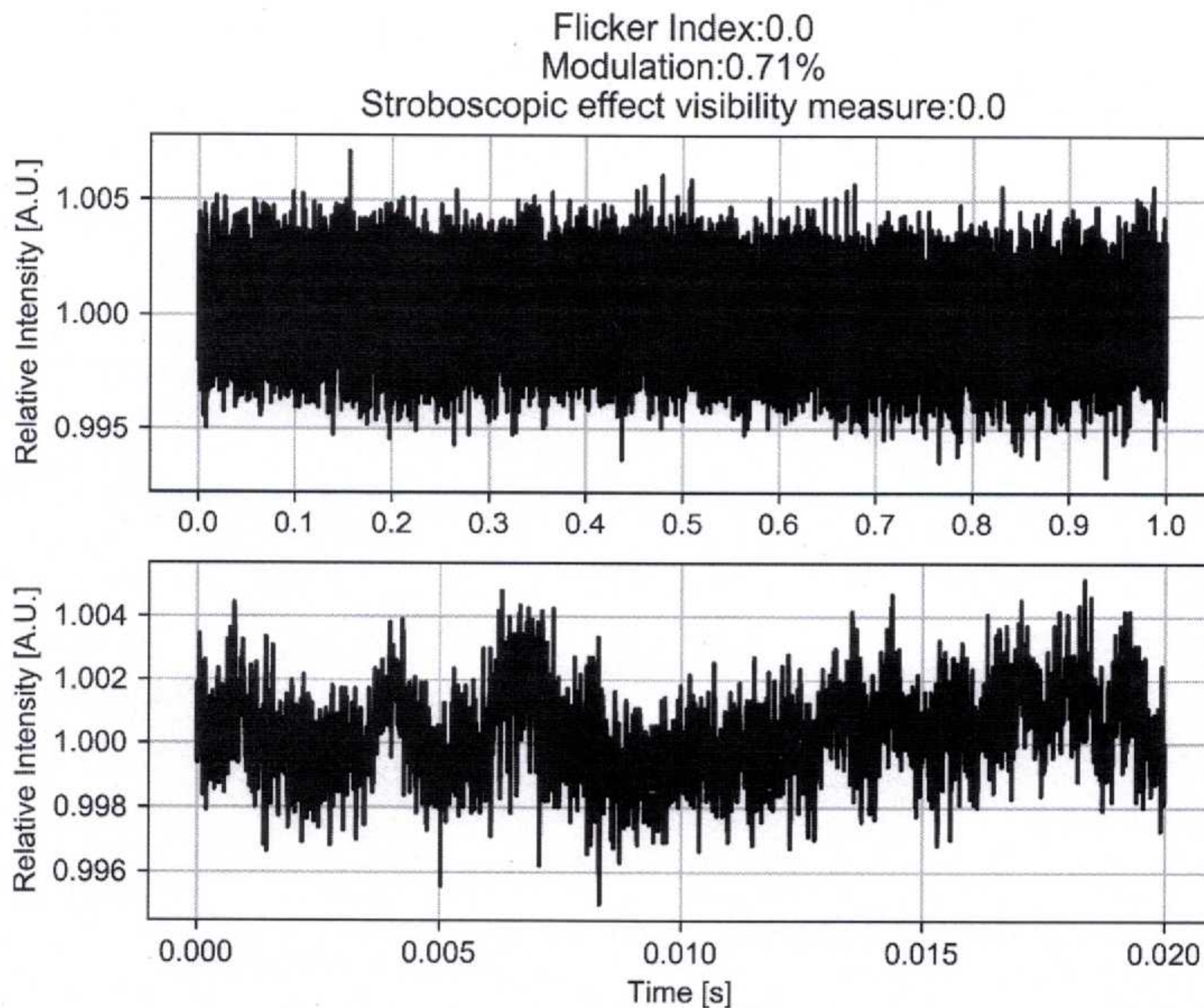
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Riff Imports

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Luminaire luminous flux
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Signal analysis³



³ According to No 7 and 8 of the „Standards“ section

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DIAL

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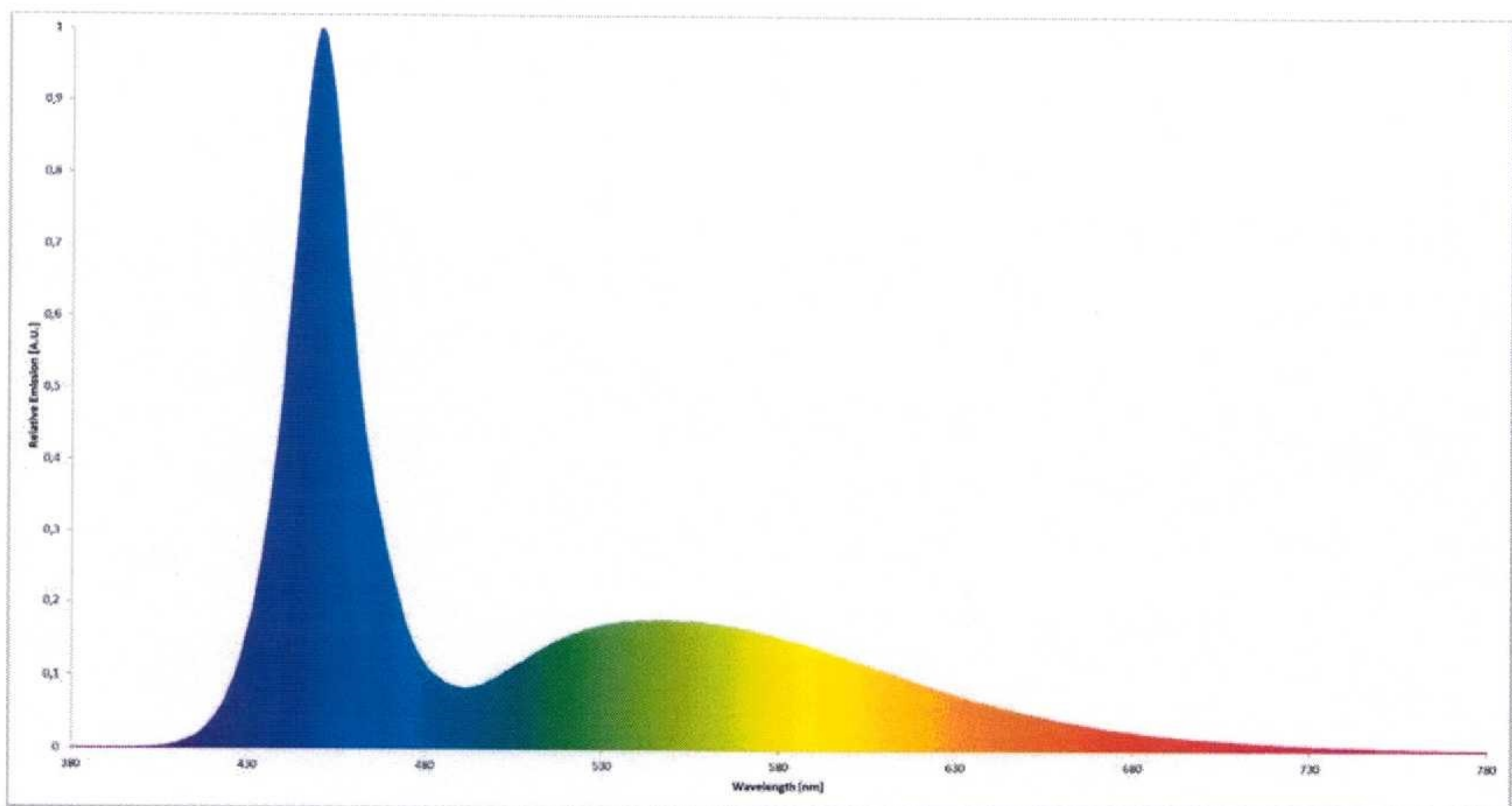
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Setting 3

CH1	CH2	CH3	CH4
100%	0%	0%	0%

Spectral distribution



Color coordinates			
x (CIE 1931)	0.240	u (CIE 1976)	0.193
y (CIE 1931)	0.204	v (CIE 1976)	0.370

Photometric laboratory

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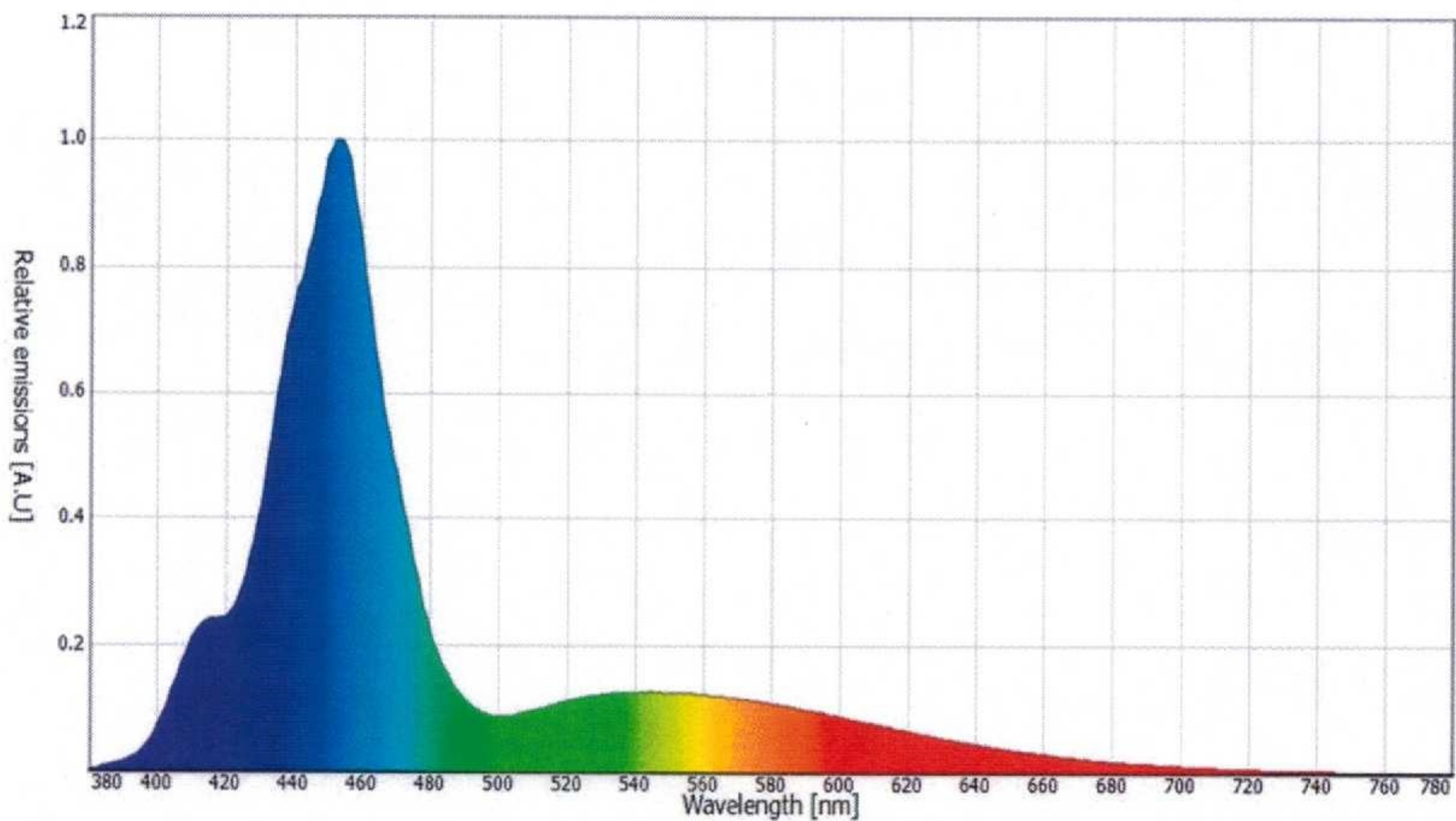
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Colorimetric results³

Setting 1

CH1	CH2	CH3	CH4
100%	100%	100%	100%

Spectral distribution



Color coordinates			
x (CIE 1931)	0.204	u (CIE 1976)	0.193
y (CIE 1931)	0.136	v (CIE 1976)	0.291

³ According to Nos 2, 3, 4, 5 and 6 of the „Standards“ section

Photometric laboratory

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DIAL

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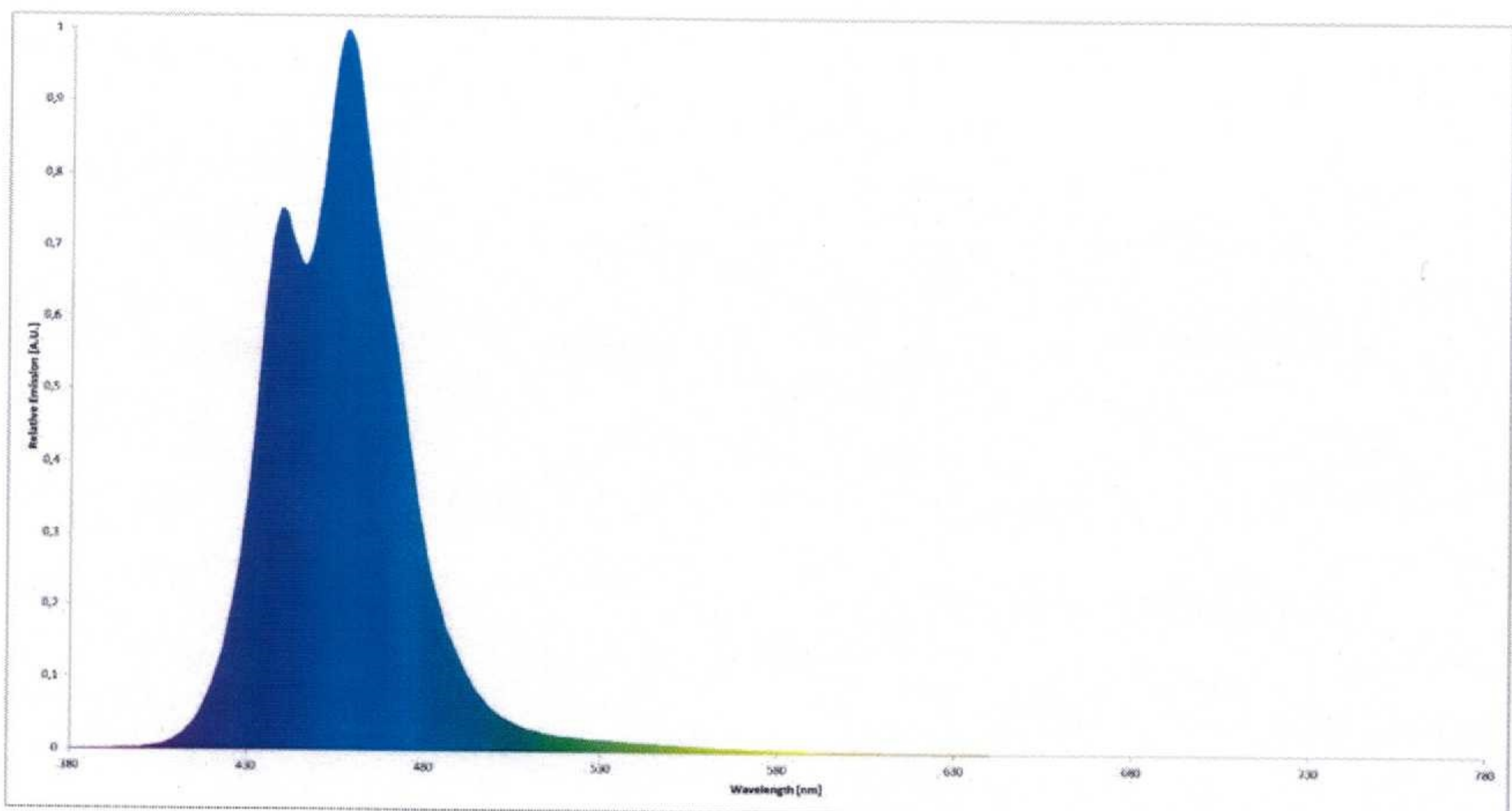
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Setting 4

CH1	CH2	CH3	CH4
0%	100%	0%	0%

Spectral distribution



Color coordinates			
x (CIE 1931)	0.149	u (CIE 1976)	0.183
y (CIE 1931)	0.046	v (CIE 1976)	0.128

Photometric laboratory

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DIAL

Customer
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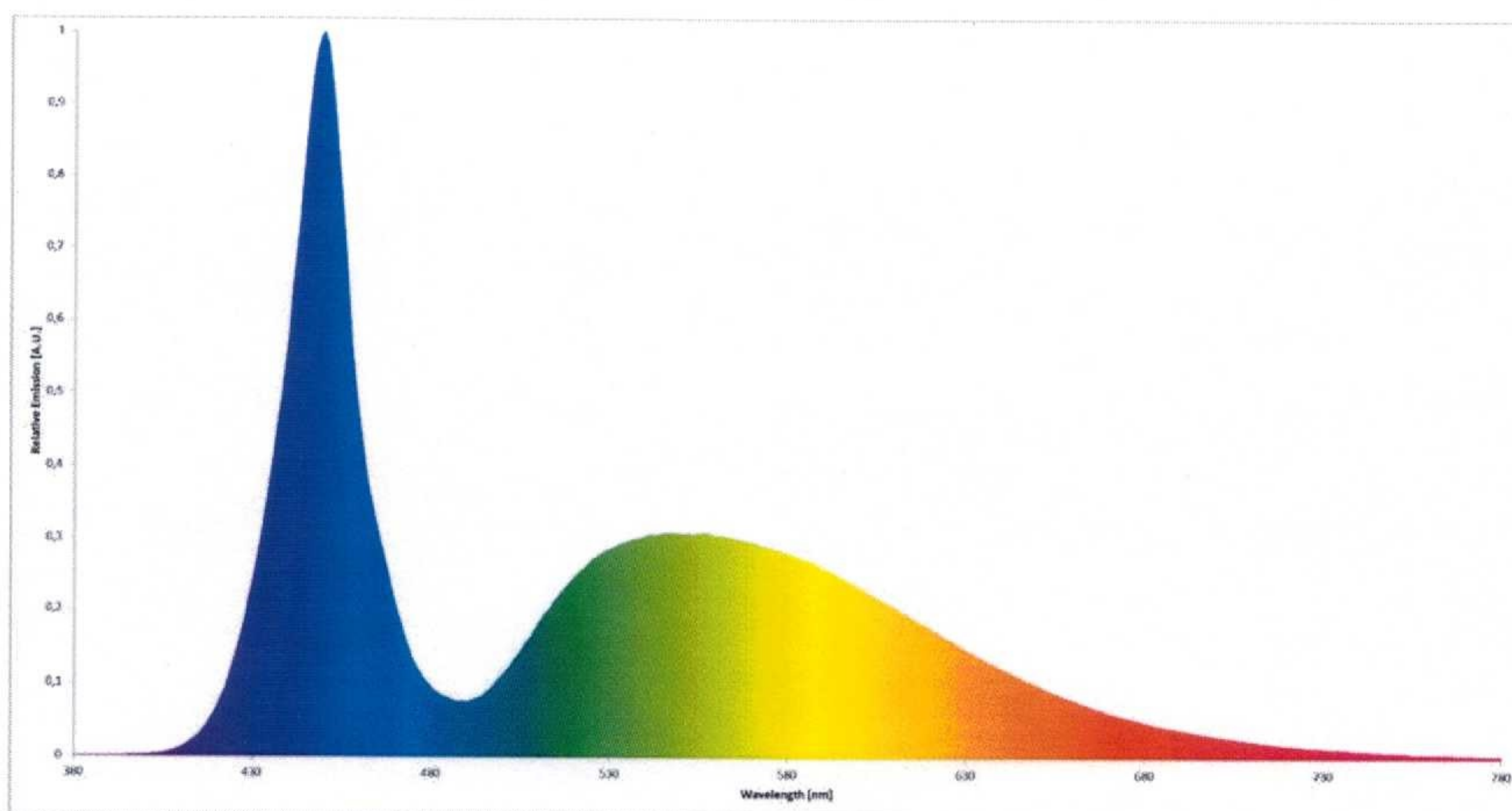
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Setting 5

CH1	CH2	CH3	CH4
0%	0%	100%	0%

Spectral distribution



Color coordinates			
x (CIE 1931)	0.284	u (CIE 1976)	0.200
y (CIE 1931)	0.271	v (CIE 1976)	0.429
Correlated color temperature [K]	10643		
Color rendering index R_{a8}	77	Color rendering index R_{a14}	69

Photometric laboratory

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DIAL

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Riff Imports

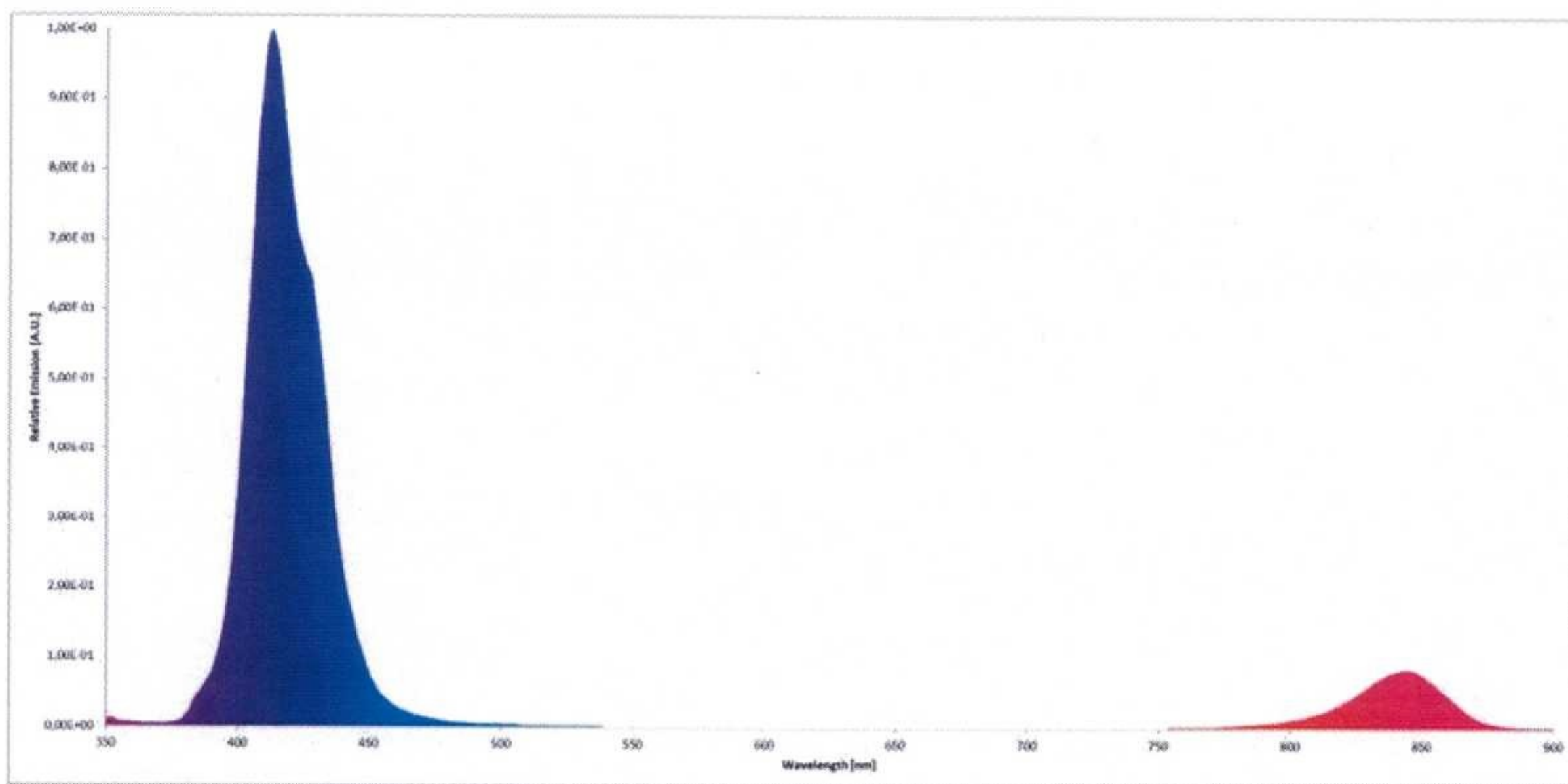
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Setting 6

CH1	CH2	CH3	CH4
0%	0%	0%	100%

Spectral distribution



Color coordinates			
x (CIE 1931)	0.155	u (CIE 1976)	0.207
y (CIE 1931)	0.025	v (CIE 1976)	0.076

Photometric laboratory

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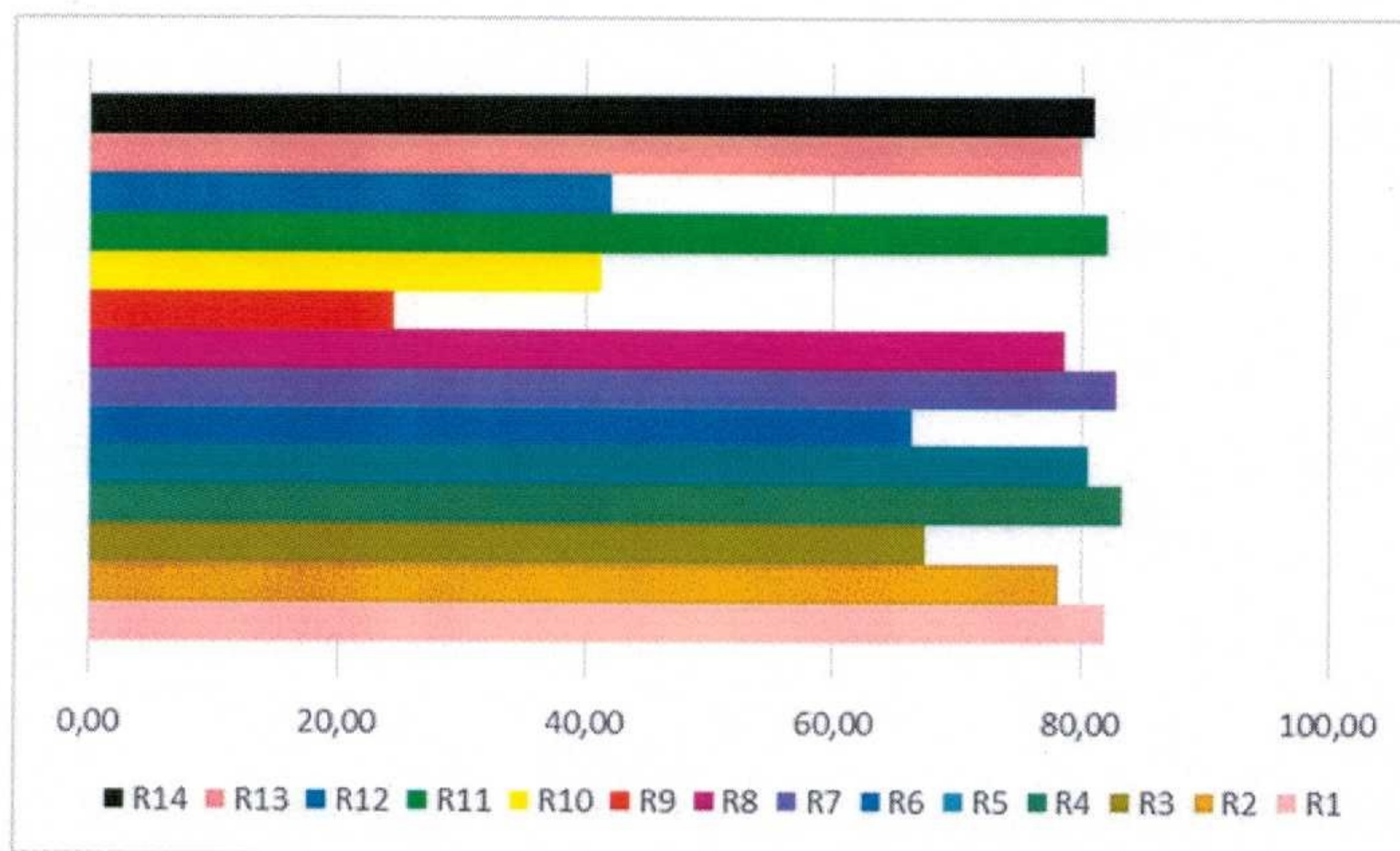
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Color rendering⁴

Color rendering index R_{a8}	77	R_7	83
Color rendering index R_{a14}	69	R_8	79
R_1	82	R_9	25
R_2	78	R_{10}	41
R_3	68	R_{11}	82
R_4	83	R_{12}	42
R_5	81	R_{13}	80
R_6	66	R_{14}	81



⁴ According to No 5 and 6 of the „Standards“ section

210303G011

Einstellung	CH1	CH2 CH3		CH4	Lichtstärke I(0,0) [cd]	Lichtstrom [lm]	PPF [μmol/s]	Spektrum - Dateiname	Spannung [V]	Strom [A]	Leistung [W]
	Dimmwerte in %										
1	100	100	100	100	8851,0	10488,6	286,9	210303F111	230,1	1,006	225,7
2	60	70	20	20	6834,9	8099,4	230,5	210303F011	230,3	0,793	175,7
3	100	0	0	0	4586,4	5435,0	102,5	210303F002	230,03	0,395	79,1
4	0	100	0	0	1151,4	1364,5	93,2	210303F003	230,04	0,383	76,2
5	0	0	100	0	3044,3	3607,5	56,2	210303F004	203,07	0,246	41,5
6	0	0	0	100	48,5	57,4	26,1	210303F005	230,06	0,247	41,9

Abstand	Beleuchtungsstärke [lx]	PPFD [umol/(s*m²)]
300mm	40573	1110
450mm	27633	756
600mm	18386	503

Werte jeweils senkrecht in der Mitte unter der Leuchte

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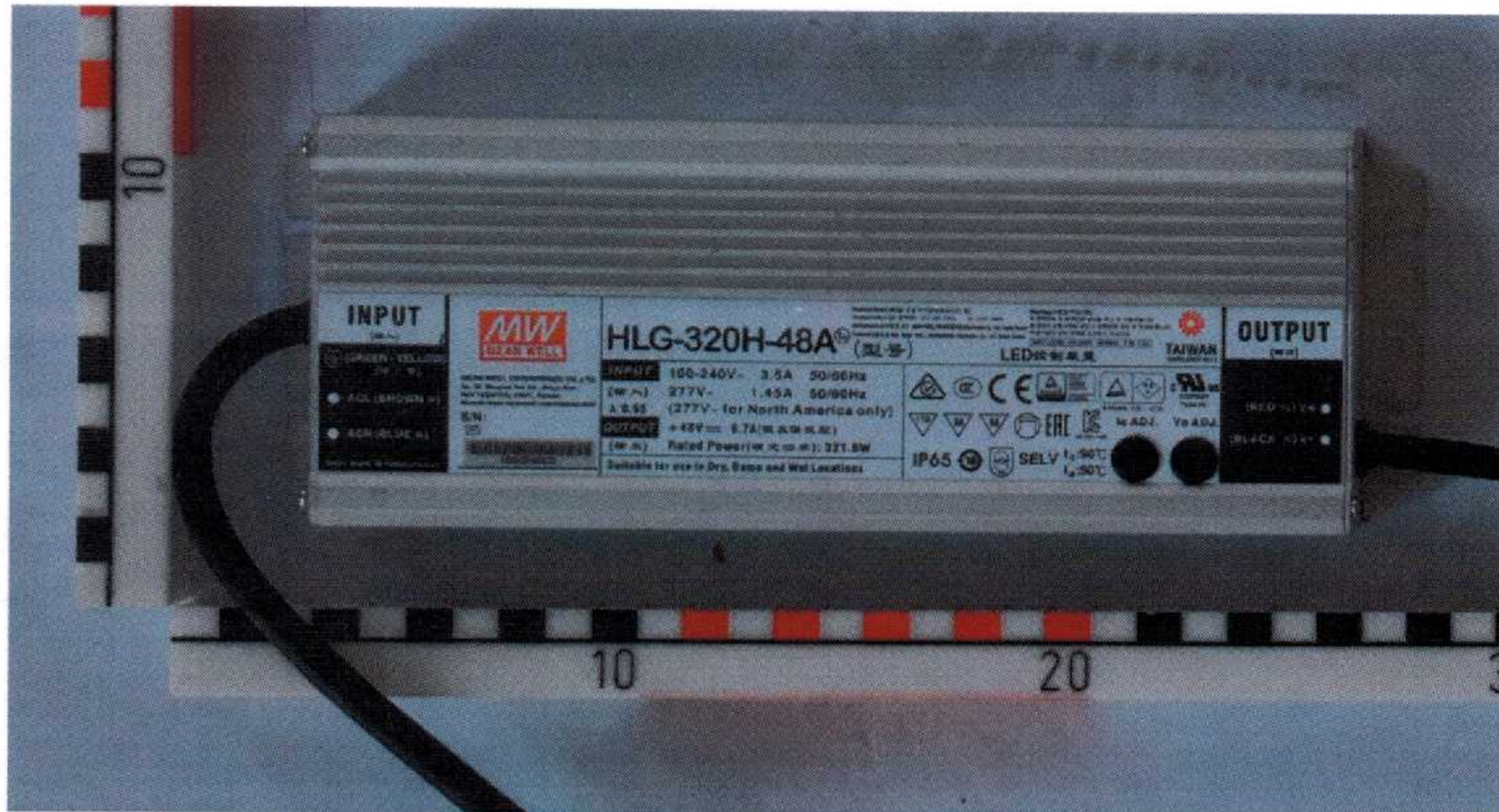
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Pictures of DUT

